



## **R G Architects, LLC**

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Middletown, DE 19709  
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RGA No. 16002  
27 December 2016

### **ADDENDUM NO. 2**

STATE OF DELAWARE OMB/DFM  
Terry Children's Center  
Bathroom Renovations  
10 Central Avenue  
New Castle, DE 19720

R G Architects  
200 West Main Street  
Middletown, DE 19709  
Phone: 302-376-8100 (phone)  
Fax: 302-376-9851 (fax)  
Email: [chris@rgarchitects.net](mailto:chris@rgarchitects.net)

BIDS DUE:

**Thursday, January 5, 2017 at 2:00 p.m.**

LOCATION:

**THOMAS COLLINS BUILDING  
Division of Facilities Management Office  
540 S. DuPont Highway, Suite 1 (Third Floor)  
Dover, Delaware 19901  
Attn: Robert Robinson**

### **NOTICE TO ALL BIDDERS**

#### **1.0 GENERAL NOTES:**

- 1.1 Bidders are hereby notified that this Addendum shall be and hereby becomes part of their Contract Documents, and shall be attached to the Project Manual for this project.
- 1.2 The following items are intended to revise and clarify the Drawings and Project Manual, and shall be included by the Bidder in their proposal.
- 1.3 Bidders shall verify that their Sub-bidders are in full receipt of the information contained herein.
- 1.4 A copy of the current bid set register is available upon request indicating individuals that have purchased project documents from R G architects.

#### **2.0 Revisions to the SPECIFICATIONS**

- 2.1 None at this time.

#### **3.0 Revisions to the DRAWINGS**

- 3.1 The water closet designations on sheets P11-5 & P11-6 have been updated to match the partial sanitary plans on sheets P11-1 & P11-2. The revised drawing P11-5 & P11-6 are attached and all changes are clouded and designated by a revision 1 triangle.

#### 4.0 Questions

- Q.1 *On the drawing you sent with addendum #1 am I to assume that the blue shaded rooms will be done as phase one and the tan colored phase 2, and the pink phase three? If yes are you planning on demoing all four areas marked blue at the same time?*
- A.1 Tan color will be phase 1, Blue color will be phase 2 and the pink color is phase 3. This is also described in section 01 11 00 "SUMMARY OF WORK" of the project specifications.
- Q.2 *On the plumbing drawings the water closets WC-1 are shown as floor outlet type but on the schedule they are asking for rear outlet type which will not work in these 6" & 8" walls. I believe they should be floor outlet type. Please advise.*
- A.2 The water closet type "WC-1" is a floor mounted toilet with a rear inlet spud and a floor discharge as shown on the plumbing schedule of drawing P-001
- Q.3 *What does the cross hatching mean on 3/D11-2 and 4/D11-3?*
- A.3 That hatching does not belong on those two drawings and should be deleted. It is from the corresponding areas on drawings A11-2 and A11-3 where new carpet and glazed block base is required.
- Q.4 *There is a 'C' for carpet shown in the corridors, the Nurse's Office, Med Records Storage 520, Storage 519, Storage 106, Office 238, the Blue Hallway, Classrooms 110 & 111, and maybe some others because I'm taking a quick look. Do all of these rooms get new carpet or will we just patch into the existing? There is presently no specification for carpet. Also, if the corridors get new carpet, could you elaborate on where we would start and stop?*
- A.4 The new carpet in the areas mentioned is for patching into existing that is either damaged during construction or where walls are relocated as shown on 3/A11-2 and 4/A11-3. The carpet to match should be priced on "Interface Carpet Tile, standard color Aegean #9371", installed per manufacturer's specifications. Color to be verified during construction.
- Q.5 *The wall types show the new partitions extending to the structure above. Do you know what the deck height is?*
- A.5 Assume the concrete deck to be at 12'-0" a.f.f.
- Q.6 *My question is regarding the extent of the parts/pieces needed to change the toilet partitions configuration. It appears the partitions that are shown in bold are the only partitions we should figure for new. Is that accurate? If so, I take it the spec provided is what is existing and to be matched?*
- A.6 No, that is not the case. We are NOT reconfiguring any of the existing toilet partitions. All toilet partitions in the renovated bathrooms are new. See demolition drawings as well as the new work drawings and coordinate between the two.
- Q.7 *I'm looking over the plans, and there don't seem to be any hardware sets listed for openings: 100C, 106,121*
- A.7 See attached revised hardware specification. The missing doors are now accounted for.

**5.0 ATTACHMENT LIST:**

- A. Bid Register
- B. Drawings P11-5 and P11-6
- C. Revised hardware specification 08 71 00

PLEASE PRINT CLEARLY

State of Delaware  
Terry Children's Center - Bathroom Renovations  
MJ3705000005

Bids Due: Thursday, January 5, 2017 at 2:00 pm  
Facilities Management Office, Thomas Collins Building  
540 S. DuPont Highway, Suite 1 (Third Floor)  
Dover, DE 19901



RGA # 16002

BID DOCUMENTS REGISTER

PLEASE PRINT CLEARLY

\$ 100.00 per set

<b>#01</b>	Name of Company: <u>BCI</u> Physical Address: <u>34 Industrial Blvd.</u> City, State: <u>New Castle, DE 19720</u> Contact: <u>Bill Michelinie</u> GC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EMAIL: <u>bmichelinie@bci-online.com</u> Fax: <u>302-325-2733</u> Phone: <u>302-325-2700</u> Date: <u>12-15-16</u>
<b>#02</b>	Name of Company: <u>Amakor, Inc.</u> Physical Address: <u>72 Clinton St</u> City, State: <u>Delaware City DE 19706</u> Contact: _____ GC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EMAIL: <u>Amakor@aol.com</u> Fax: <u>302 834 8681</u> Phone: <u>302 834 8664</u> Date: <u>12-15-16</u>
<b>#03</b>	Name of Company: <u>C+D CONTRACTORS</u> Physical Address: <u>14 E. 410th STREET</u> City, State: <u>Wilmington DE. 19809</u> Contact: <u>Kerry Vandegrift</u> GC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EMAIL: <u>KVANDEGRIFT.CD@VERIZON.NET</u> Fax: _____ Phone: <u>302 764 8013</u> Date: <u>12-15-16</u>
<b>#04</b>	Name of Company: <u>HARBOR STONE CONSTRUCTION CO. LLC</u> Physical Address: <u>100 ELIZABETH WAY</u> City, State: <u>OXFORD, PA</u> Contact: <u>JOHN ROZICH</u> GC: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EMAIL: <u>jrozich@harborstonecc.com</u> Fax: <u>610 467 0692</u> Phone: <u>610 467 0872</u> Date: <u>12/15/16</u>

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State of Delaware  
 Terry Children's Center - Bathroom Renovations  
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Bids Due: Thursday, January 5, 2017 at 2:00 pm  
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 Dover, DE 19901



RGA # 16002

BID DOCUMENTS REGISTER

PLEASE PRINT CLEARLY

<p><b>#05</b></p>	<p>Name of Company: <u>Deldeo Builders Inc</u>                  Physical Address: <u>100 NAAMANS Rd Suite 3F</u>                  City, State: <u>CLAYMONT DE 19703</u>                  Contact: <u>Leo Deldeo</u> GC: <input type="checkbox"/> YES <input type="checkbox"/> NO                  EMAIL: <u>100deldeo@COMCAST.NET</u>                  Fax: <u>302-791-0243</u>                  Phone: <u>302-791-0243</u> Date: <u>12/15</u></p>
<p><b>#06</b></p>	<p>Name of Company: <u>BSS CONTRACTORS, LLC</u>                  Physical Address: <u>281 E. EVERGREEN ST. - SUITE 3</u>                  City, State: <u>WEST GROVE, PA. 19390</u>                  Contact: <u>LACY CLEVENSTINE</u> GC: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                  EMAIL: <u>LACY@BSSCONTRACTOR.COM</u>                  Fax: <u>610-345-1318</u>                  Phone: <u>610-345-1316</u> Date: <u>12/19</u></p>
<p><b>#07</b></p>	<p>Name of Company: <u>L.J. POOLELLA CONSTRUCTIONAL</u>                  Physical Address: <u>278 BRIDGEWATER ROAD</u>                  City, State: <u>BROOKHAVEN, PA 19015</u>                  Contact: <u>DILLAN SCHINDewolf</u> GC: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                  EMAIL: <u>PM.DILLAN@LJPINC.NET</u>                  Fax: <u>610-499-8930</u>                  Phone: <u>610-499-8950</u> Date: <u>12/19</u></p>
<p><b>#08</b></p>	<p>Name of Company: <u>VENTRESCA BROS. INC.</u>                  Physical Address: <u>2300 N. DUPONT HWY</u>                  City, State: <u>NEW CASTLE, DE 19720</u>                  Contact: <u>TONY VENTRESCA</u> GC: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO                  EMAIL: <u>TONY@VENTRESCABROS.COM</u>                  Fax: <u>302-658-2360</u>                  Phone: <u>302-658-6430</u> Date: <u>12/23/16</u></p>

**SECTION 08 71 00****DOOR HARDWARE**

## PART 1 - GENERAL

## 1.1 SUMMARY:

- A. Section Includes: Finish Hardware for door openings, except as otherwise specified herein.
  - 1. Door hardware for wood doors.
  - 2. Door hardware for other doors indicated.
  - 3. Keyed cylinders as indicated.
  
- B. Related Sections:
  - 1. Division 06 Section 06 10 53 "Miscellaneous Rough Carpentry".
  - 2. Division 08 Section 08 11 13 "Hollow Metal Doors and Frames".
  - 3. Division 08 Section 08 14 16 "Flush Wood Doors".
  
- C. References: Comply with applicable requirements of the following standards. Where these standards conflict with other specific requirements, the most restrictive shall govern.
  - 1. Builders Hardware Manufacturing Association (BHMA)
  - 2. NFPA 101 Life Safety Code
  - 3. NFPA 80 -Fire Doors and Windows
  - 4. ANSI-A156.xx- Various Performance Standards for Finish Hardware
  - 5. UL10C – Positive Pressure Fire Test of Door Assemblies
  - 6. ANSI-A117.1 – Accessible and Usable Buildings and Facilities
  - 7. DHI /ANSI A115.IG – Installation Guide for Doors and Hardware
  - 8. ICC – International Building Code
  
- D. Intent of Hardware Groups
  - 1. Should items of hardware not definitely specified be required for completion of the Work, furnish such items of type and quality comparable to adjacent hardware and appropriate for service required.
  - 2. Where items of hardware aren't definitely or correctly specified, are required for completion of the Work, a written statement of such omission, error, or other discrepancy to be submitted to Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality established by this specification, and appropriate to the service intended.
  
- E. Allowances
  - 1. Refer to Division 01 Section 01 21 00 "Allowances" for allowance amount and procedures.
  
- F. Alternates
  - 1. Refer to Division 01 Section 01 23 00 "Alternates" for Alternates and procedures.

## 1.2 SUBSTITUTIONS:

- A. Comply with Division 01 Section 01 25 00 "Substitution Procedures".

## 1.3 SUBMITTALS:

- A. Comply with Division 01 Section 01 33 00 "Submittal Procedures".
- B. Special Submittal Requirements: Combine submittals of this Section with Sections listed below to ensure the "design intent" of the system/assembly is understood and can be reviewed together.
- C. Product Data: Manufacturer's specifications and technical data including the following:
  - 1. Detailed specification of construction and fabrication.
  - 2. Manufacturer's installation instructions.
  - 3. Wiring diagrams for each electric product specified. Coordinate voltage with electrical before submitting.
  - 4. Submit 6 copies of catalog cuts with hardware schedule.
  - 5. Provide 9001-Quality Management and 14001-Environmental Management for products listed in Materials Section 2.2
- D. Shop Drawings - Hardware Schedule: Submit 6 complete reproducible copy of detailed hardware schedule in a vertical format.
  - 1. List groups and suffixes in proper sequence.
  - 2. Completely describe door and list architectural door number.
  - 3. Manufacturer, product name, and catalog number.
  - 4. Function, type, and style.
  - 5. Size and finish of each item.
  - 6. Mounting heights.
  - 7. Explanation of abbreviations and symbols used within schedule.
  - 8. Detailed wiring diagrams, specially developed for each opening, indicating all electric hardware, security equipment and access control equipment, and door and frame rough-ins required for specific opening.
- E. Templates: Submit templates and "reviewed Hardware Schedule" to door and frame supplier and others as applicable to enable proper and accurate sizing and locations of cutouts and reinforcing.
  - 1. Templates, wiring diagrams and "reviewed Hardware Schedule" of electrical terms to electrical for coordination and verification of voltages and locations.
- F. Samples: (If requested by the Architect)
  - 1. 1 sample of Lever and Rose/Escutcheon design, (pair).
  - 2. 3 samples of metal finishes
- G. Contract Closeout Submittals: Comply with Division 01 Section 01 77 00 "Closeout Procedures" including specific requirements indicated.
  - 1. Operating and maintenance manuals: Submit 3 sets containing the following.
    - a. Complete information in care, maintenance, and adjustment, and data on repair and replacement parts, and information on preservation of finishes.
    - b. Catalog pages for each product.
    - c. Name, address, and phone number of local representative for each manufacturer.
    - d. Parts list for each product.

2. Copy of final hardware schedule, edited to reflect, "As installed".
3. Copy of final keying schedule
4. As installed "Wiring Diagrams" for each piece of hardware connected to power, both low voltage and 110 volts.
5. One set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

#### 1.4 QUALITY ASSURANCE

##### A. Comply with Division 01 Section 01 40 00 "Quality Requirements".

1. Statement of qualification for distributor and installers.
2. Statement of compliance with regulatory requirements and single source responsibility.
3. Distributor's Qualifications: Firm with 3 years experience in the distribution of commercial hardware.
  - a. Distributor to employ full time Architectural Hardware Consultants (AHC) for the purpose of scheduling and coordinating hardware and establishing keying schedule.
  - b. Hardware Schedule shall be prepared and signed by an AHC.
4. Installer's Qualifications: Firm with 3 years experienced in installation of similar hardware to that required for this Project, including specific requirements indicated.
5. Regulatory Label Requirements: Provide testing agency label or stamp on hardware for labeled openings.
  - a. Provide UL listed hardware for labeled and 20 minute openings in conformance with requirements for class of opening scheduled.
  - b. Underwriters Laboratories requirements have precedence over this specification where conflict exists.
6. Single Source Responsibility: Except where specified in hardware schedule, furnish products of only one manufacturer for each type of hardware.

##### B. Review Project for extent of finish hardware required to complete the Work. Where there is a conflict between these Specifications and the existing hardware, notify the Architect in writing and furnish hardware in compliance with the Specification unless otherwise directed in writing by the Architect.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

##### A. Packing and Shipping: Comply with Division 01.

1. Deliver products in original unopened packaging with legible manufacturer's identification.
2. Package hardware to prevent damage during transit and storage.
3. Mark hardware to correspond with "reviewed hardware schedule".
4. Deliver hardware to door and frame manufacturer upon request.

##### B. Storage and Protection: Comply with manufacturer's recommendations.

#### 1.6 PROJECT CONDITIONS:

##### A. Coordinate hardware with other work. Furnish hardware items of proper design for use on doors and frames of the thickness, profile, swing, security and similar requirements indicated, as



necessary for the proper installation and function, regardless of omissions or conflicts in the information on the Contract Documents.

- B. Review Shop Drawings for doors and entrances to confirm that adequate provisions will be made for the proper installation of hardware.

1.7 WARRANTY:

- A. Refer to Conditions of the Contract
- B. Manufacturer's Warranty:
  - 1. Closers: Ten years
  - 2. Exit Devices: Five Years
  - 3. Locksets & Cylinders: Three years
  - 4. All other Hardware: Two years.

1.8 OWNER'S INSTRUCTION:

- A. Instruct Owner's personnel in operation and maintenance of hardware units.

1.9 MAINTENANCE:

- A. Extra Service Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 01 Closeout Submittals Section.
  - 1. Special Tools: Provide special wrenches and tools applicable to each different or special hardware component.
  - 2. Maintenance Tools: Provide maintenance tools and accessories supplied by hardware component manufacturer.
  - 3. Delivery, Storage and Protection: Comply with Owner's requirements for delivery, storage and protection of extra service materials.
- B. Maintenance Service: Submit for Owner's consideration maintenance service agreement for electronic products installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

- A. The following manufacturers are approved subject to compliance with requirements of the Contract Documents. Approval of manufacturers other than those listed shall be in accordance with Division 1.

<u>Item:</u>	<u>Manufacturer:</u>	<u>Approved:</u>
Hinges	Stanley	As approved by Architect
Locksets	Best	As approved by Architect
Cylinders	Schlage	No Substitution
Closers	Stanley CLD-4550	As approved by Architect
Push/Pull Plates	Trimco	As approved by Architect
Push/Pull Bars	Trimco	As approved by Architect
Protection Plates	Trimco	As approved by Architect
Overhead Stops	ABH	As approved by Architect
Door Stops	Trimco	As approved by Architect

## 2.2 MATERIALS:

## A. Hinges:

1. Template screw hole locations
2. Minimum of 2 permanently lubricated non-detachable bearings
3. Equip with easily seated, non-rising pins
4. Sufficient size to allow 180-degree swing of door
5. Furnish hinges with five knuckles and concealed bearings
6. Provide hinge type as listed in schedule.
7. Furnish 3 hinges per leaf to 7 foot 6 inch height. Add one for each additional 30 inches in height or fraction thereof.
8. Tested and approved by BHMA for all applicable ANSI Standards for type, size, function and finish
9. UL10C listed for Fire rated doors.
10. Hinges to be furnished with Hospital Tips (HT).

## B. Cylindrical Type Locks and Latchsets:

1. Tested and approved by BHMA for ANSI A156.2, Series 4000, Operational Grade 1, Extra-Heavy Duty, and be UL10C listed.
2. Provide 9001-Quality Management and 14001-Environmental Management.
3. Fit modified ANSI A115.2 door preparation.
4. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty
5. Locksets to have anti-rotational studs that are thru-bolted
6. Keyed lever shall not have exposed "keeper" hole
7. Each lever to have independent spring mechanism controlling it
8. 2-3/4 inch (70 mm) backset
9. 9/16 inch (14 mm) throw latchbolt
10. Provide sufficient curved strike lip to protect door trim
11. Outside lever sleeve to be seamless, of one-piece construction made of a hardened steel alloy
12. Keyed lever to be removable only after core is removed, by authorized control key
13. Provide locksets with 7-pin removable and interchangeable core cylinders
14. Hub, side plate, shrouded rose, locking pin to be a one-piece casting with a shrouded locking lug.
15. Locksets outside locked lever must withstand minimum 1400 inch pounds of torque. In excess of that, a replaceable part will shear. Key from outside and inside lever will still operate lockset.
16. Core face must be the same finish as the lockset.
17. Functions and design as indicated in the hardware groups.

## C. Mortise Deadbolt:

1. Tested and approved by ANSI A156.5, Operational Grade 1.
2. Provide 9001-Quality Management and 14001-Environmental Management.
3. Locksets and cores to be of the same manufacturer to maintain complete lockset warranty
4. 2-3/4 inch (70mm) backset
5. 1 inch throw deadbolt

- D. Cylinders:
1. Provide the necessary cylinder housings, collars, rings & springs as recommended by the manufacturer for proper installation.
  2. Provide the proper cylinder cams or tail piece as required to operate all locksets and other keyed hardware items listed in the hardware sets.
  3. Coordinate and provide as required for related sections.
- E. Door Closers shall:
1. Tested and approved by BHMA for ANSI 156.4, Grade 1
  2. UL10C certified
  3. Provide 9001-Quality Management and 14001-Environmental Management.
  4. Closer shall have extra-duty arms and knuckles
  5. Conform to ANSI 117.1
  6. Maximum 2 7/16 inch case projection with non-ferrous cover
  7. Separate adjusting valves for closing and latching speed, and backcheck
  8. Provide adapter plates, shim spacers and blade stop spacers as required by frame and door conditions
  9. Full rack and pinion type closer with 1½" minimum bore
  10. Mount closers on non-public side of door, unless otherwise noted in specification
  11. Closers shall be non-handed, non-sized and multi-sized.
- F. Door Stops: Provide a dome floor or wall stop for every opening as listed in the hardware sets.
1. Wall stop and floor stop shall be wrought bronze, brass or stainless steel.
  2. Provide fastener suitable for wall construction.
  3. Coordinate reinforcement of walls where wall stop is specified.
  4. Provide dome stops where wall stops are not practical. Provide spacers or carpet riser for floor conditions encountered
- G. Over Head Stops: Provide a Surface mounted or concealed overhead when a floor or wall stop cannot be used or when listed in the hardware set.
1. Concealed overhead stops shall be heavy duty stainless steel.
  2. Surface overhead stops shall be heavy duty stainless steel.
- H. Push Plates: Provide with four beveled edges ANSI J301, .050 thickness, size as indicated in hardware set. Furnish oval-head countersunk screws to match finish.
- I. Pulls with plates: Provide with four beveled edges ANSI J301, .050 thickness Plates with ANSI J401 Pull as listed in hardware set. Provide proper fasteners for door construction.
- J. Push Pull Bars: Provide ANSI J504, .1" Dia. Pull and push bar model and series as listed in hardware set. Provide proper fasteners for door construction.
- K. Kickplates: Provide with four beveled edges ANSI J102, 10 inches high by width less 2 inches on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.
- L. Mop plates: Provide with four beveled edges ANSI J103, 6 inches high by width less 1 inch on single doors and 1 inch on pairs of doors. Furnish oval-head countersunk screws to match finish.

- M. Provide one wall mounted Telkee, Lund or MMF series key cabinet complete with hooks, index and tags to accommodate 50% expansion. Coordinate mounting location with architect.
- N. Silencers: Furnish silencers on all interior frames, 3 for single doors, 2 for pairs. Omit where any type of seals occur.

**2.3 FINISH:**

- A. Designations used in Schedule of Finish Hardware - 3.05, and elsewhere to indicate hardware finishes are those listed in ANSI/BHMA A156.18 including coordination with traditional U.S. finishes shown by certain manufacturers for their products
- B. Powder coat door closers to match other hardware, unless otherwise noted.
- C. Aluminum items shall be finished to match predominant adjacent material. Seals to coordinate with frame color.

**2.4 KEYS AND KEYING:**

- A. Provide keyed brass construction cores and keys during the construction period. Construction control and operating keys and core shall not be part of the Owner's permanent keying system or furnished in the same keyway (or key section) as the Owner's permanent keying system. Permanent cores and keys (prepared according to the accepted keying schedule) will be furnished to the Owner.
- B. Cylinders, removable and interchangeable core system: Schlage LFIC Patented 6-pin.
- C. Permanent keys and cores: Stamped with the applicable key mark for identification. These visual key control marks or codes will not include the actual key cuts. Permanent keys will also be stamped "Do Not Duplicate."
- D. Transmit Grand Masterkeys, Masterkeys and other Security keys to Owner by Registered Mail, return receipt requested.
- E. Furnish keys in the following quantities:
  - 1. 1 each Grand Masterkeys
  - 2. 4 each Masterkeys
  - 3. 2 each Change keys each keyed core
  - 4. 5 each Construction masterkeys
  - 5. 1 each Control keys
- F. The Owner, or the Owner's agent, will install permanent cores and return the construction cores to the Hardware Supplier. Construction cores and keys remain the property of the Hardware Supplier.
- G. Keying Schedule: Arrange for a keying meeting, and programming meeting with Architect Owner and hardware supplier, and other involved parties to ensure locksets and locking hardware, are functionally correct and keying and programming complies with project requirements. Furnish 3 typed copies of keying and programming schedule to Architect.

## PART 3 - EXECUTION

## 3.1 EXAMINATION

- A. Verification of conditions: Examine doors, frames, related items and conditions under which Work is to be performed and identify conditions detrimental to proper and or timely completion.
  - 1. Do not proceed until unsatisfactory conditions have been corrected.

## 3.2 HARDWARE LOCATIONS:

- A. Mount hardware units at heights indicated in the following publications except as specifically indicated or required to comply with the governing regulations.
  - 1. Recommended Locations for Builder's Hardware for Standard Steel Doors and Frames, by the Door and Hardware Institute (DHI).
  - 2. Recommended locations for Architectural Hardware for flush wood doors (DHI).
  - 3. WDMA Industry Standard I.S.-1A-04, Industry Standard for Architectural wood flush doors.

## 3.3 INSTALLATION:

- A. Install each hardware item per manufacturer's instructions and recommendations. Do not install surface mounted items until finishes have been completed on the substrate. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- B. Conform to local governing agency security ordinance.
- C. Install Conforming to ICC/ANSI A117.1 Accessible and Usable Building and Facilities.
  - 1. Adjust door closer sweep periods so that from the open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the landing side of the door.
- D. Installed hardware using the manufacturers fasteners provided. Drill and tap all screw holes located in metallic materials. Do not use "Riv-Nuts" or similar products.

## 3.4 FIELD QUALITY CONTROL AND FINAL ADJUSTMENT

- A. Contractor/Installers, Field Services: After installation is complete, contractor shall inspect the completed door openings on site to verify installation of hardware is complete and properly adjusted, in accordance with both the Contract Documents and final shop drawings.
  - 1. Check and adjust closers to ensure proper operation.
  - 2. Check latchset, lockset, and exit devices are properly installed and adjusted to ensure proper operation.
    - a. Verify levers are free from binding.
    - b. Ensure latchbolts and dead bolts are engaged into strike and hardware is functioning.

3. Report findings, in writing, to architect indicating that all hardware is installed and functioning properly. Include recommendations outlining corrective actions for improperly functioning hardware if required.

3.5 SCHEDULE OF FINISH HARDWARE:

**Manufacturer List**

<u>Code</u>	<u>Name</u>
AB	ABH Manufacturing Inc.
BE	Best Access Systems
SC	Schlage
SD	Stanley Door Closers
ST	Stanley
TR	Trimco

**Option List**

<u>Code</u>	<u>Description</u>
N	S/Steel Components (1000/7000//9000)
HT	HOSPITAL TIPS-HEAVY WEIGHT
SH	SECURITY HEAD SCREWS
B4E	BEVELED 4 EDGES - KICK PLATES
CSK	COUNTER SINKING
SCHRC	Schlage "C" Keyway ("6" Core Housing)
P45-180	Drop Plate

**Finish List**

<u>Code</u>	<u>Description</u>
626	Satin Chromium Plated
630	Satin Stainless Steel
689	Aluminum Painted
GREY	Grey
US32D	Stainless Steel, Dull

### Hardware Sets

**SET #1**

Doors: 100A, 119, 120, 322, 323, 422, 423, 521, 522

3 Hinges	HT CB199 4 1/2 X 4 1/2	US32D	ST
1 Deadlock	48H-0R	626	BE
1 Mortise Cylinder Primus	20-798	626	SC
	NOTE: Verify cam before ordering.		
1 Pull Plate	1015-3B	630	TR
1 Push Plate	1001-3	630	TR
1 Door Closer	CLD-4551 REG P45-180 X ST	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Overhead Stop	N 1020 Series	US32D	AB
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #2**

Doors: 200A, 200B, 100B

3 Hinges	HT CB199 4 1/2 X 4 1/2	US32D	ST
1 Deadlock	48H-0R	626	BE
1 Mortise Cylinder Primus	20-798	626	SC
	NOTE: Verify cam before ordering.		
1 Pull Plate	1015-3B	630	TR
1 Push Plate	1001-3	630	TR
1 Door Closer	CLD-4551 REG	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Stop	1270WV / 1211 AS REQ'D	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #3**

Doors: 110A, 111A, 221A

3 Hinges	HT CB199 4 1/2 X 4 1/2	US32D	ST
1 Privacy Set	SPSL-MLLT16F SH	630	BE
1 Door Closer	CLD-4550 CS	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #4**

Doors: 110, 111

3 Hinges	HT CB199 4 1/2 X 4 1/2 NRP	US32D	ST
1 Deadlock	48H-0R	626	BE
1 Mortise Cylinder Primus	20-798	626	SC
	NOTE: Verify cam before ordering.		
1 Pull Plate	1015-3B	630	TR
1 Push Plate	1001-3	630	TR
1 Door Closer	CLD-4550 EDA	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Stop	1270WV / 1211 AS REQ'D	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #5**

Doors: 100C, 106, 110B, 111B, 121, 200

3 Hinges	HT CB199 4 1/2 X 4 1/2 NRP	US32D	ST
1 Storeroom Lockset	9K3-0D14D SCHRC	626	BE
1 Cylinder Core Primus	20-740	626	SC
1 Door Closer	CLD-4550 EDA	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Stop	1270WV / 1211 AS REQ'D	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR



**SET #6**

Doors: 221B, 221C, 319, 326, 419, 426, 500

3 Hinges	HT CB199 4 1/2 X 4 1/2 NRP	US32D	ST
1 Storeroom Lockset	9K3-0D14D SCHRC	626	BE
1 Cylinder Core Primus	20-740	626	SC
1 Door Closer	CLD-4550 CS	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #7**

Doors: 210A

3 Hinges	HT CB199 4 1/2 X 4 1/2	US32D	ST
1 Privacy Set	9K3-0L14D	626	BE
1 Door Closer	CLD-4550 CS	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #8**

NOTE USED

**SET #9**

Doors: 221, 321, 421

3 Hinges	HT CB199 4 1/2 X 4 1/2 NRP	US32D	ST
1 Classroom Lockset	9K3-0R14D SCHRC	626	BE
1 Cylinder Core Primus	20-740	626	SC
1 Door Closer	CLD-4550 CS	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

**SET #10**

Doors: 320, 324, 325, 420, 424, 425

3 Hinges	HT CB199 4 1/2 X 4 1/2	US32D	ST
1 Privacy Set	9K3-0L14D	626	BE
1 Door Closer	CLD-4551 REG	689	SD
1 Kick Plate	K0050 10" X 2" LDW B4E CSK	630	TR
1 Mop Plate	KM050 6" X 1" LDW B4E CSK	630	TR
1 Stop	1270WV / 1211 AS REQ'D	630	TR
1 Plunger Door Holder	1255	626	TR
3 Door Silencers	1229A	GREY	TR

## Opening List

<u>Opening</u>	<u>Hdw Set</u>
110	4
111	4
119	1
120	1
200	5
221	9
319	6
320	10
321	9
322	1
323	1
324	10
325	10
326	6
419	6
420	10
421	9
422	1
423	1
424	10
425	10
426	6
500	6
521	1
522	1
100A	1
110A	3
110B	5
111A	3
111B	5
200A	2
200B	2
210A	7
221A	3
221B	6
221C	6
100B	2
100C	5
106	5
121	5

END OF SECTION